REMARKS

Claims 1, 3-6 and 10 were pending in this application. Claims 1, 3, 5 and 10 have been amended and new claim 13 has been added.

The amendment to claim 1 is supported throughout the original specification, e.g., at page 3, line 15. Claims 3, 5, and 10 have been amended in form only. New claim 13 is supported, e.g., by original claim 2. No new matter is introduced by these amendments.

After entry of this amendment claims 1, 3-6, 10 and 13 are pending in this application. Consideration of the pending claims is requested.

Claim Rejections under 35 U.S.C. §102:

Claims 1, 3, 5, 6 and 10 have been rejected under 35 U.S.C. §102(b) as being allegedly anticipated by Tine et al., Infect. Immun., 64(9):3833-3844, September 1996 ("Tine").

Applicants traverse this rejection.

Tine teaches the insertion of "genomic or cDNA copies of the genes encoding CSP, PfSSP2, a repeatless form of LSA1, MSP1, SERA, AMA1 and Pfs25 at four defined sites in the NYVAC [vaccinia virus] genome" (see, Tine, page 3838, column 2, approx. lines 14-18). As evidenced, e.g., by Figure 1 in Tine, the genes encoding the above-mentioned proteins were under the control of separate promoters and were separately transcribed. Thus, Tine describes the expression of multiple proteins each of which is from a particular life stage of P. falciparum. In stark comparison, amended claim 1 (and dependent claims 5, 6, and 10) recites, in part, a "single, recombinant protein comprising peptides from two or more stages in a life cycle of Plasmodium falciparum"

With regard to claim 3, Tine clearly does not teach the amino acid sequence set forth in the present application as SEQ ID NO: 2.

Page 3 of 5

Because Tine does not teach each and every element of claim 1 or claim 3, Tine cannot anticipate such claims or claims that depend from either of them (i.e., claims 5, 6 and 10). Thus, Applicants request that this rejection of claims 1, 3, 5, 6 and 10 be withdrawn.

Claim Rejections under 35 U.S.C. §103:

Claims 1 and 3-6 have been rejected under 35 U.S.C. §103 as allegedly being unpatentable over Tine, in view of Schmitt *et al.*, *Mol. Biol. Reports*, 18:223-230, 1993 ("Schmitt"). Applicants traverse this rejection.

As discussed above, Tine does not teach or suggest all of the elements of claims 1 and 3-6. Schmitt does not teach or suggest the claim elements lacking in Tine (e.g., peptides from two or more *P. falciparum* life stages expressed in a single, recombinant protein). Thus, all the claim limitations are not taught or suggested by the cited references and a *prima facie* case of obviousness is not established (MPEP §1504.03). Applicants request that this rejection be withdrawn.

New Claim 13

New claim 13 depends from claim 1 and, therefore, avoids Tine and Tine in view of Schmitt for each of the reasons stated for claim 1.

Page 4 of 5

CONCLUSION

It is respectfully submitted that the present claims are in a condition for allowance. If it may further issuance of these claims, the Examiner is invited to call the undersigned at the telephone number listed below.

Respectfully submitted,

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